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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/703,629	11/10/2003	Takashi Sakakura	1163-0484P	2164
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PO BOX 747	CH VA 22040 0747	KASRAIAN, ALLAHYAR		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			2617	
			NOTIFICATION DATE	DELIVERY MODE
			03/19/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
	10/703,629	SAKAKURA, TAKASHI				
Office Action Summary	Examiner	Art Unit				
	ALLAHYAR KASRAIAN	2617				
The MAILING DATE of this communication app	ears on the cover sheet with the c	correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period variety or period for reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>07 D</u>	ecember 2007.					
• • • • • • • • • • • • • • • • • • • •	action is non-final.					
· <u> </u>						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
AMochanous (a)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/11/2007.	5) Notice of Informal F 6) Other:	'atent Application				

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DETAILED ACTION

Art Unit - Location

1. The Art Unit location of this application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

Remarks

2. The present Office Action is in response to Applicant's amendment filed on Dec. 7, 2007.

Claims 1-14 are now pending in the present application. This Action is made FINAL.

Specification

3. The objection to specification is withdrawn. The amendment regarding the title of the specification received on Dec. 7, 2007 is acknowledged by the Examiner.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless – (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-3, 5-10, and 12-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsunaga (U.S. Patent Application Pub. # 2004/0066746 A1).

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Consider **claim 1**, Matsunaga clearly shows and discloses a router apparatus comprising (see FIG. 2 or FIG. 4 for Packet Transfer Apparatus 10 or 11):

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an IP packet identification unit (see Flow Identifying Means 302) for identifying IP packets that are burstly transmitted to said router apparatus based on both a protocol for a transport layer, which is applied to received IP packets (par. 0035 and 0074), wherein each received IP packets is assigned a priority (par. 0011, 0020 and 0038, "the measured packet transfer rate is compared with rate information preset for each flow to determine priority order in which individual received packets are transferred") based on an amount of data stored in a statistical information storage field which stores statiscal information of a target session (FIG. 2 or 4 and FIG. 3 for Flow Identification Database 303 considered as statically information storage field and q target session is considered as a corresponding flow; par 0074-0076 and more in details in par. 0079-0096) and the transfer rate of each received IP packets and a transfer rate at a time of receiving IP packets, and for disabling a transfer of received IP packets that are determined to be burstly transmitted to said router apparatus (see lines 2-4 of par. 0059, "identifying means 302 searches the flow identification database 303 to identify an upper layer's flow corresponding to received data packets..." means 302 classifies the received packet based on transfer rate measurement and one of the classification is higher than maximum limiting rate which is considered as burstly IP packets. See lines 1-3 of par. 0110 for the disabling limitation, "this processing method when the maximum limiting rate is exceeded are... received packet discarding (Drop)..."; and lines 1-3 of par. 0113 for indication of transport layer limitation, "if transport layer protocol is UDP, the processing method when maximum limiting rate is exceeded

is set to (Drop)..."); and a transfer rate measurement unit for determining said transfer rate (see Fig. 2 for Packet Transfer measuring Means 304).

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Consider **claim 8**, Matsunaga clearly shows and discloses a method for disabling burst transmission to a router apparatus, comprising (FIG. 2 or 4, par. 0035):

identifying IP packets that are burstly transmitted to said router apparatus based on both a protocol for a transport layer, which is applied to received IP packets, and a transfer rate at a time of receiving IP packets (FIG. 2 or 4, par. 0035);

assigning each received IP packets a priority based on an amount of data stored in a statistical information storage field which stores statistical information of a target session and the transfer rate of each received IP packets (par. 0011, 0020 and 0038, "the measured packet transfer rate is compared with rate information preset for each flow to determine priority order in which individual received packets are transferred"; FIG. 2 or 4 and FIG. 3 for Flow Identification Database 303 considered as statically information storage field and q target session is considered as a corresponding flow; par 0074-0076 and more in details in par. 0079-0096); and

disabling a transfer of received IP packets that are determined to be burstly transmitted to said router apparatus according to said priority (par. 0035).

Consider claims 2 and 9 as applied to claims 1 and 8 above respectively, Matsunaga clearly shows and discloses in a case of receiving IP packets to which TCP is applied as the protocol for the transport layer, said IP packet identification unit discards said IP packets so as to cause a terminal that is a sending source of said IP packets to adjust the transfer rate to a

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predetermined value or below when the transfer rate at the time of receiving said IP packets exceeds the predetermined value (see par. 0114 and 0115 for determining whether the transport layer if TCP when the maximum limiting rate is exceeded then the transmission of packet is stopped and sending acknowledgement packets to the source).

Consider claims 3 and 10 as applied to claims 1 and 8 above respectively, Matsunaga clearly shows and discloses in a case of receiving IP packets to which UDP is applied as the protocol for the transport layer, said IP packet identification unit discards all IP packets associated with an identical session when the transfer rate at the time of receiving said IP packets exceeds a predetermined value (see lines 1-3 of par. 0110, "if transport layer protocol is UDP, the processing method when maximum limiting rate is exceeded is set to (Drop)…").

Consider claims 5 and 12 as applied to claims 1 and 8 above respectively, Matsunaga clearly shows and discloses said transfer rate measurement unit calculates the transfer rate only for sessions in which a time required for reception of preceding IP packets does not exceed a predetermined time (see par., "the queue selection method in these queue selection means 307,308 and 309... by which expected transfer times are managed on the basis of... maximum limiting rate... and a packet is extracted from the queue of a flow having minimum expected transfer time.").

Consider claims 6 and 13 as applied to claims 2 and 9 above respectively, Matsunaga clearly shows and discloses dynamically sets the predetermined value based on a number of

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sessions stored in said router apparatus (see lines 3-6 of par. 0025, "maximum limiting rates preset for flows {F1, F2,..., Fi} which belong to group 1 and Msum be sum total of these maximum limiting rates...").

Consider claims 7 and 14 as applied to claims 2 and 9 above respectively, Matsunaga clearly shows and discloses dynamically sets the predetermined value according to an amount of transferred data stored in said router apparatus (see lines 6-10 of par. 0117, "on the basis of the transport layer protocol of the flow identification conditions, the processing method when the maximum limiting rate is exceeded, it is possible to reduce buffer necessary for shaping and also reduce the processing load required for shaping").

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

 Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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7. Claims 4 and 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Matsunaga (U.S. Patent Application Pub. # 2004/0066746 A1) in view of Lo et al (U.S.

Patent Application Pub. # 2003/0095567 A1).

Consider **claims 4 and 11 as applied to claims 1 and 8 above respectively**, Matsunaga disclosed the claimed invention except said IP packet identification unit transfers IP packets to which RTP is applied as the protocol for the transport layer on a priority basis, and disables a transfer of IP packets to which other protocols are applied.

In the same field of endeavor, Lo et al. clearly show and disclose said IP packet identification unit transfers IP packets to which RTP is applied as the protocol for the transport layer on a priority basis, and disables a transfer of IP packets to which other protocols are applied (see FIG. 3 and lines 10-20 of paragraph 0022, "IP packets are analyzed by the protocol processor 44 and if a packet is identified as an RTP packet, the packet is redirected, away from the conventional IP/UDP processing as performed on the CPU 46 by an Operating System routine, and processed by the RTP handler module 48. The RTP handler module 48 preferably comprises firmware or a microcode routine executed by the protocol processor 44. The RTP handler module 48 is thus separate from the operating system and preferably executes on a separate processor...").

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the real time protocol (RTP) identifier and processor as taught by Lo et al. to the flow identification means 302 of packet transfer apparatus 10 as

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disclosed by Matsunaga for the purpose of detecting and the processing of RTP flows with superiority separated from other flows. The proper motivation is to separate and process and the accelerate processing of RTP protocol from other protocols.

Response to Arguments

Applicant's arguments filed Dec. 07, 2007 have been fully considered but they are not persuasive.

From the last paragraph of page 6 to the third paragraph of page 7 of the Applicant's arguments/remarks, Applicants argues that Matsunaga fails to teach or suggest, "that the IP packets are assigned a priority based on an amount of data stored in a statistical information storage field which stores statistical information of a target session and that the disabling of burstly transmitted IP packets are based on the assigned priority as recited in claim 1".

Examiner respectfully disagrees since Matsunaga teaches every old and new limitation with regards in details in par. 0011, 0020, 0035, 0074-0075 and details in par. 0079-0095.

Therefore, independent claims 1 and 8 with their dependent claims 2-3, 5-7, 9-10 and 12-14 are rejected as being anticipated by Matsunaga.

With regards to claims 4 and 11, since Matsunaga teaches all the limitations of the independent claims, claims 4 and 11 are still rejected under 35 U.S.C. 103(a) as being unpatentable over Matsunaga in view of Lo et al.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this

Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

8. Any response to this Office Action should be **faxed to** (571) 273-8300 **or mailed to**:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window

Randolph Building

401 Dulany Street

Alexandria, VA 22314

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9. Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Allahyar Kasraian whose telephone number is (571) 270-1772.

The Examiner can normally be reached on Monday-Thursday from 8:00 a.m. to 5:00 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

supervisor, Rafael Pérez-Gutiérrez can be reached on (571) 272-7915. The fax phone number for

the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 571-272-

4100.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist/customer service whose telephone number is (571) 272-

2600.

Allahyar Kasraian

A.K./ak

March 10, 2008

/Rafael Pérez-Gutiérrez/

Supervisory Patent Examiner, Art Unit 2617